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Ref: 1305-OD-111

15 December 1964

[Redacted]

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Post Office Box 9474
Rosslyn Station
Arlington, Virginia 22209

Subject: [Redacted] Project SC-1305
Progress Report, November-December 1964

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Gentlemen,

Enclosed are four (4) copies of [Redacted] Progress
Report on Project SC-1305 for the period November-December 1964.

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Very truly yours,

[Redacted Signature]

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Vice President - Marketing

RJL/de

Encl: (4) P.R. - 2 pp.

Cert. #743 845

PROGRESS REPORT
For
AUTOMATIC STEREO CORRELATOR
SC 1305

"Construction of Breadboard System of an Automatic Stereo Correlator and Evaluation of the Performance Capabilities of such a System."

Period Covered: November - December 1964

Date: 15 December 1964

Job No.: SC 1305

Document No.: OD-109

This is the fourth monthly progress report.

TASK OBJECTIVE

To manufacture a breadboard and to conduct sufficient tests to determine the performance capabilities inherent in a system of automatic stereo correlation as described in the 552 MSC proposal.

CURRENT STATUS OF WORK

Electronic

- 1) All assemblies have been completed and inter-connected.
- 2) All electronics, except the photomultipliers and the X, Y, \emptyset and M channel difference amplifiers, have been checked out and debugged using an electrical signal to simulate a scan signal, but using the scan multiplex system. Note the difference amplifiers are purchased items.

Opto-mechanical

- 1) The opto-mechanical breadboard, with the exception of the fiber optics cable, has been assembled. To facilitate preliminary system tests, the servoed sections have not been assembled to the scan head and main optical assembly.
- 2) The vibration problem encountered last month in the scan disk drive has been solved by the use of a belt drive and a resilient motor mount.
- 3) Preliminary optical alignment has been made, and satisfactory stereo images are formed.

PROBLEM AREAS ENCOUNTERED

It was found that the D.C. scan motor and its speed control electronics introduced considerable electrical noise into the signal and channel selector channels. Filtering both at the speed control and near the motor has eliminated this problem.

DOCUMENTATION OF VERBAL COMMITMENTS AND/OR AGREEMENTS

None have been made.

PROJECTED WORK FOR NEXT PERIOD

- 1) Completion of preliminary tests and adjustment of the scan slits.
- 2) Tests on servoed channels.
- 3) Preliminary evaluation and rework based on preliminary tests.